

Descriptions — Small Animal Surgery and Medicine of Courses

823. Special Surgery
 Spring. 3(1-6) May re-enroll for a maximum of 6 credits. Approval of department.
 Surgical technique and tissue reactions following surgery in small animals.

825. Advanced Anesthesiology
 Winter. 4(2-3) Approval of department.

Principles of drug action pertaining to anesthetics will be discussed including respiratory and cardiovascular effects of inhalation and intravenous agents. Anesthetic techniques for various animal species will be presented.

826. Cardiology
 Fall. 3(2-4) Approval of department.

Study recent advances in veterinary cardiology. Includes electrocardiology, congenital and acquired diseases, cardiac catheterization and surgery.

899. Research
 Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 18 credits. Approval of department.
 Research on thesis problems.

**SOCIAL SCIENCE S S
 University College**

Students may earn credit in only one of the courses in each of the following three groups:
 1. 201, 211, 221, 241
 2. 202, 212, 222, 242
 3. 203, 213, 223, 243

100. Personal Decision Making and Public Policy
 Spring. 4(4-0)

Public policy and decision-making processes. Effects of policy on the quality of life. Development of descriptive and prescriptive social science skills. Improving the policy-making process.

201. Americans and Their Values
 (231A.) Fall, Winter, Spring, Summer. 4(4-0)

Processes by which individuals are socialized to the prevailing patterns of behavior by such agencies as family, school, peer groups, mass media and church. Part played by each in the development of personality.

202. Power in America
 (232A.) Fall, Winter, Spring, Summer. 4(4-0) 201 preferred; or 211, 221, or 241.

Problems of regulating and controlling human behavior. Emphasis placed on major economic and political institutions involved in social control. This includes problems of human wants and needs.

203. A Peaceful World?
 (233A.) Fall, Winter, Spring, Summer. 4(4-0) 202 preferred; or 212 or 222, or 242.

The international scene with the focus on problems of economic development, conflict among the nation-states and attempts at conflict control.

211. The Emergence of Man
 (231B.) Fall, Winter, Spring, Summer. 4(4-0)

The bio-social evolution of man. The theories and empirical findings of the behavioral sciences are brought to bear upon the nature of man.

212. Coping with Changing Institutions in Modern Society
 (232B.) Fall, Winter, Spring Summer. 4(4-0) 211 preferred; or 201, 221, or 241.

Individuals and the changing institutional framework of modern society. Emphasis on socialization enabling personality systems in different cultural settings to cope with life in the future.

213. Casualties of Contemporary Society
 (233B.) Fall, Winter, Spring, Summer. 4(4-0) 212 preferred; or 202; 222, or 242.

The meaning of deviant behavior and personal disorganization and their impact on society. Selected problems examined in depth.

IDC. The Politics of Ecology
 For course description, see Interdisciplinary Courses.

221. The Changing American Metropolis: Ecology of the Urban Community
 (231C.) Fall, Winter, Spring, Summer. 4(4-0)

Factors and directions in urban change. Impacts on life styles and life strategies of urban groups. Challenges to traditional family, educational, and community patterns.

222. Work and Politics in Urban America
 (232C.) Fall, Winter, Spring, Summer. 4(4-0) 221 preferred; or 201, 211, 241.

Changing patterns of economic and political participation. Issues of employment security and job satisfaction. Distribution of economic rewards, political power, and civil rights. Inter-meshing of economic and political activities.

223. The World's Cities: An Urban Culture and Common Problems
 (233C.) Fall, Winter, Spring, Summer. 4(4-0) 222 preferred; or 202, 212, or 242.

The unity of urban life patterns and the emergence of modern-day urban problems. Cultural variations in approach to issues—comparative political, social, economic, ideological systems.

241. Modernization: Political and Social
 (231D.) Fall, Winter, Spring, Summer. 4(4-0)

The nature and sources of social cohesion. Approaches to the modernization of traditional societies. Problems and alternative strategies of nation building.

242. Modern Ideologies: Justifications of Political and Economic Power
 (232D.) Fall, Winter, Spring, Summer. 4(4-0) 241 preferred; or 201, 211 or 221.

Ideologies of change in the modern world—sources, appeals, problems. Issues of social justice and individual freedom.

243. Revolutionary Change and International Conflict
 (233D.) Fall, Winter, Spring, Summer. 4(4-0) 242 preferred; or 202, 212, or 222.

Social tensions and revolutionary change. The causes of war: international conflict and the great powers. Strategies for peace. Man's conscience versus state policies.

300. Supervised Individual Study
 Fall, Winter, Spring. 2 to 4 credits. 8 credits completed in the Social Science Department and approval of department.

Selected students requesting individual study of interdisciplinary problems will work under supervision of University College professors. Variable elective credit will be determined when the student secures instructor, adviser, and department approval.

IDC. Modernization: India and Japan
 For course description, see Interdisciplinary Courses.

IDC. Modernization: The Middle East
 For course description, see Interdisciplinary Courses.

IDC. Far East: Contemporary Issues and Problems
 For course description, see Interdisciplinary Courses.

IDC. Refugees, Displaced Persons, Hostages, Exiles
 For course description, see Interdisciplinary Courses.

**SOCIAL SCIENCE SSC
 (COLLEGE OF)**

210. Methods of Social Science I
 Fall, Winter, Spring, Summer. 4(4-0) Sophomores

Characteristics of social science theory and method. Logical and practical aspects of data collection; standard techniques of investigation in the social sciences.

211. Methods of Social Science II
 Fall, Winter, Spring, Summer. 4(4-0) 210.

Principles of measurement and scaling. Types of variables. Techniques and problems of sampling. Research design. Role of explanation and of value judgments in social science.

450H. Perspectives in Social Science
 (390H.) Fall, Winter, Spring. 4(4-0) Juniors, approval of Honors College. Preference given to majors in Social Science and professional schools of the College of Social Science.

Seminars in selected topics in areas of knowledge represented by the social science disciplines and allied professional fields.

470. Selected Topics in Social Science
 Winter, Spring. 4(4-0) May re-enroll for a maximum of 8 credits. 18 credits in Social Science.

An interdisciplinary investigation of major theoretical and applied topics in the social sciences, including computer utilization in social science research, and interdisciplinary approaches to contemporary problems. Topics will vary from term to term.

480. Contemporary Social Problems in the United States
 Fall, Winter. 4(4-0) May re-enroll for a maximum of 8 credits. 18 credits in Social Science.

Interdisciplinary investigation of selected major social problems of the United States, such as urban redevelopment, environmental control, welfare reform, crime and society, the future of American society.

482. Contemporary Social Problems Abroad
Spring. 4(4-0) 18 credits in social science.

Seminars dealing with major theoretical topics and social problems concerning foreign areas, such as economic and educational development, population explosions, war crises and peace-keeping. A multi-disciplinary approach involving specialists from the social science disciplines and allied professional fields.

490. Individual Research Projects

Fall, Winter, Spring. 4 credits. May re-enroll for a maximum of 8 credits. Multi-disciplinary social science majors and 12 credits in social sciences — agricultural economics, anthropology, economics, geography, political science, psychology and sociology.

Individually supervised study and research on a topic using a multidisciplinary approach.

495. Foreign Area Field Study

Fall, Winter, Spring, Summer. 3 to 15 credits. May re-enroll for a maximum of 24 credits. Juniors and 12 credits in social science.

Study in a variety of foreign settings under the guidance of an adviser, such as American University Field Study Centers in Rome and Singapore.

810. Introduction to Linear System Theory

(812.) Fall. 3(3-0) MTH 214. Interdepartmental with the Computer Science Department and Systems Science and administered by Systems Science.

A first course in system theory for students from a range of disciplines. Mathematical representation of system variables, transform and state space method of analysis, introduction to control theory, applications to physical, economic and social systems.

811. System Methodology and Simulation

Winter. 3(3-0) 810, STT 441. Interdepartmental with the Computer Science Department and Systems Science and administered by Systems Science.

Problem definition, design of abstract models for system design and control, simulation of systems described by differential and difference equations, generation of random variables, simulation of discrete object stochastic systems, simulation languages, applications to physical, economic and social systems.

813. System Project

Spring. 3(1-6) 811. Interdepartmental with the Computer Science Department and Systems Science and administered by Systems Science.

Individual or team application of simulation methods to system design and/or management.

999. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of college.

SOCIAL WORK S W

College of Social Science

205. Contemporary Social Work

Fall, Winter, Spring, Summer. 3(3-0)
Role of the social worker in relation to social issues and human needs; social service programs, structures and functions of public and voluntary agencies in a changing society.

228. Marriage

Fall, Winter, Spring. 4(4-0) Students may not receive credit in both 228 and FCS 145.

Examination of marriage and the family, from a social work point of view. Consideration of such areas of adjustment as emotional, physical, social, financial, religious and legal.

322. Child Welfare

Winter. 3(3-0) Juniors; SOC 251 or PSY 245.

Child welfare movement and contemporary children's agencies and their services. Programs for improving home and for substitute care, safeguarding health, employment protection, delinquency prevention, and other needs of children and youth.

367. Social Services in Selected Settings

Fall, Winter, Spring, Summer. 2(1-2) Junior majors, 205.

Self-instruction laboratory and classroom discussion of social agency programs.

400H. Honors Work

Fall, Winter, Spring, Summer. 1 to 16 credits. Juniors; approval of school.

Study of a problem, phase or field of social work; seminar for particularly able students.

417. Minorities and Women in the World of Work

Fall, Spring. 4(4-0) Senior majors or approval of department. Interdepartmental with the departments of Management and Racial and Ethnic Studies and administered by the Department of Management.

Racial, ethnic, sexual and other minority experiences and problems in the world of work. Awareness training approach (what it's like to be . . .) featuring movies, guests, subgroup discussions and encounter-type exercises.

420. Current Issues in Social Work

Fall, Winter, Spring, Summer. 2(2-0) May re-enroll for a maximum of 6 credits. Seniors; approval of school.

Designed to integrate knowledge of social issues within a social science framework useful for social work. Includes review of selected issues and exploration of their relevance for social work.

428. Dynamics of Marriage and Family Relations

Fall, Winter, Spring, Summer. 3(3-0) Juniors.

Analysis of post-marital interpersonal adjustment from standpoint of family social work. Includes current social changes affecting these relationships, and specialized services available to families.

433. Social Work as a Profession I

Fall. 4(3-2) Junior majors; PSY 225; SOC 241.

Social work in relation to development of the individual and his adaptation to his environment. Related laboratory experience.

434. Social Work as a Profession II

Winter. 4(3-2) 433.

Continuation of 433. Human reactions under stress; social work intervention through welfare organizations and social action. Related laboratory experience.

435. Social Work as a Profession III

Spring. 4(3-2) 434.
Continuation of 434. Social welfare programs to meet human needs; social planning for services. Related laboratory experience.

439. Interviewing in Social Welfare

Fall, Winter, Spring, Summer. 3(2-2) Junior majors; 433 or PSY 225.

Principles of interviewing as applied to social welfare. Related laboratory experience.

440. Social Work Intervention

Fall, Winter, Spring, Summer. 3(3-0) 439.

Intervention related to individuals and families based on application of social work and social science knowledge and utilization of interviewing techniques.

444. Social Work in Corrections

Spring. 3(3-0) 205 or 433 or approval of school.

Introduction to juvenile and adult probation and parole, clinical services in juvenile institutions, and classification in prisons. Intended for students planning to enter corrections field.

450. International Studies in Social Welfare

Fall, Winter, Spring, Summer. 3 to 12 credits. May re-enroll for a maximum of 24 credits. Approval of school.

Independent study or participation in formal programs outside the United States.

467. Field and Agency Experience

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 16 credits. Senior majors 433 or 434 or 435 concurrently; 440 or concurrently, approval of school.

Individual experience in approved social agencies and institutions. Weekly class. Credit calculated on basis of 30 contact hours per term, per credit.

475. Philosophy and Techniques in Social Work Research

Fall, Winter, Spring, Summer. 3(3-0) Junior majors.

Concepts and methodology used for empirical investigation of social work problems including the philosophic basis of scientific investigation, techniques of measurement, research design, data collection, and data analysis.

476. Research Methods in Social Work Intervention

Fall, Winter, Spring, Summer. 3(1-4) Senior majors or approval of school.

Experimental analysis of behavior research methods applied to social work. Emphasis on the evaluation of intervention techniques used by social workers with clients. Laboratory research with animals included.

482. Selected Approaches in Social Work

Winter. 2 or 3 credits. May re-enroll for a maximum of 6 credits. Junior majors.

490. Independent Study in Social Work

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 12 credits. Third-term Juniors; approval of school.

Each student will work under direction of a faculty member on an experimental, theoretical, or applied problem.